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	Application No.	Applicant(s)	-
	Application No.	Application	
Notice of Allowability	10/646,456	CLARK ET AL.	
Notice of Allowability	Examiner	Art Unit	
-	Richard Pantoliano Jr	2194	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is sub-	is application. If not included cation will be mailed in due course	
1. X This communication is responsive to amendment filed 14	March 2007 and interview cond	ucted 29 August 2007.	
2. X The allowed claim(s) is/are <u>1-9,13-30 and 32-35</u> .			
<ul> <li>3. Acknowledgment is made of a claim for foreign priority upon a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have an accordance.</li> </ul>	e been received. e been received in Application I	No	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give some submined of the control of the con	MENT of this application.  nitted. Note the attached EXAM res reason(s) why the oath or do st be submitted. son's Patent Drawing Review ( - 's Amendment / Comment or in 1.84(c)) should be written on the the header according to 37 CFR osit of BIOLOGICAL MATER	INER'S AMENDMENT or NOTICE eclaration is deficient.  PTO-948) attached the Office action of drawings in the front (not the back) 1.121(d).  IAL must be submitted. Note the	E OF
Attachment(s)		·	
1. Notice of References Cited (PTO-892)	5. Notice of Infor	mal Patent Application	
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./Ma	ail Date <u>20070831</u> .	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	-	nendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's St	atement of Reasons for Allowance	<del>)</del>
	WILLIAM TH SUPERVISORY PAT	OMSON ENT EXAMINER	

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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Ms. Naya Chatterjee-Marathe (Reg. No. 54,680) on 30 August 2007.
- 3. The application has been amended as follows:
  - a) Claim 1: Replace with the following:

"A method for use by a first process executing in a computer system for interacting with a second process executing in the computer system, the method comprising:

during a startup sequence of the second process, creating a copy of a global notification hook of the first process in the second process;

using the copy of the global notification hook, detecting an occurrence of a triggering message passed between an operating system and a thread of the second process;

in response to detecting the occurrence of the triggering message, determining whether subsequent messages passed between the operating system and the thread of the second process should be monitored;

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in the event that the subsequent messages should be monitored, activating a thread-level message hook within the thread of the second process, wherein the thread-level message hook is configured to monitor the subsequent messages;

during a startup sequence of the first process:

detecting a third process executing in the computer system;
inserting a copy of the global notification hook into the third process; and
broadcasting a private startup message to the copy of the global
notification hook in the third process;

wherein, in response to the private startup message, the copy of the global notification hook executes acts of:

determining whether subsequent messages passed between the operating system and a thread of the third process should be monitored; and

activating a thread-level message hook within the thread of the third process;

wherein determining whether subsequent messages passed between the operating system and the thread of the third process should be monitored includes:

in the event that the subsequent messages should be monitored,

identifying a previously created window of the third process; and

determining whether the previously created window is of interest, wherein subsequent messages should be monitored in the event that the previously created window is of interest."

- b) Cancel Claims 10-12;
- c) Claim 18: Replace with the following:

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"A method for use by a first process executing in a computer system for interacting with a second process executing in the computer system, the method comprising:

during a startup sequence of the first process, creating a copy of a global notification hook of the first process in the second process;

broadcasting a private startup message from the first process to the copy of the global notification hook;

wherein, in response to the private startup message, the copy of the global notification hook executes acts of:

determining whether subsequent messages passed between the operating system and a thread of the second process should be monitored; and

in the event that subsequent messages should be monitored, activating a thread-level message hook within the thread of the second process, wherein the thread-level message hook is configured to monitor the subsequent messages;

during a startup sequence of the first process:

detecting a third process executing in the computer system;
inserting a copy of the global notification hook into the third process; and
broadcasting a private startup message to the copy of the global
notification hook in the third process;

wherein, in response to the private startup message, the copy of the global notification hook executes acts of:

determining whether subsequent messages passed between the operating system and a thread of the third process should be monitored; and

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in the event that the subsequent messages should be monitored, activating a thread-level message hook within the thread of the third process;

wherein determining whether subsequent messages passed between the operating system and the thread of the third process should be monitored includes:

identifying a previously created window of the third process; and

determining whether the previously created window is of interest, wherein subsequent messages should be monitored in the event that the previously created window is of interest."

- d) Claim 19, line 2: Replace "third" with --forth--;
- e) Claim 27: Replace with the following:

"A computer program product stored on a computer-readable medium for use by a first process executing in a computer system for interacting with a second process executing in the computer system, the computer program product comprising:

program code for creating a copy of a global notification hook of the first process in the second process during a startup sequence of the second process;

program code for detecting an occurrence of a triggering message in the second process;

program code for determining, in response to detecting the occurrence of the triggering message, whether subsequent messages passed between the operating system and a thread of the second process should be monitored;

program code for activating a thread-level message hook within the thread of the second process in the event that the subsequent messages should be monitored,

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wherein the thread-level message hook is configured to monitor the subsequent messages;

program code for, during a startup sequence of the first process:

detecting a third process executing in the computer system;

inserting a copy of the global notification hook into the third process; and

broadcasting a private startup message to the copy of the global

wherein, in response to the private startup message, the copy of the global notification hook executes program code for:

determining whether subsequent messages passed between the operating system and a thread of the third process should be monitored; and in the event that the subsequent messages should be monitored, activating a thread-level message hook within the thread of the third process;

wherein determining whether subsequent messages passed between the operating system and the thread of the third process should be monitored includes:

identifying a previously created window of the third process; and determining whether the previously created window is of interest, wherein subsequent messages should be monitored in the event that the previously created window is of interest."

## f) Claim 32: Replace with the following:

notification hook in the third process;

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"A computer program product stored on a computer-readable medium for use by a first process executing in a computer system for interacting with a second process executing in the computer system, the computer program product comprising:

program code for creating a copy of a global notification hook of the first process in the second process during a startup sequence of the second process;

program code for broadcasting a private startup message from the first process to the copy of the global notification hook;

program code for determining, in response to the private startup message, whether subsequent messages passed between the operating system and a thread of the second process should be monitored;

program code for activating a thread-level message hook within the thread of the second process, in the even that the subsequent messages should be monitored, wherein the thread-level message hook is configured to monitor the subsequent messages;

program code for, during a startup sequence of the first process:

detecting a third process executing in the computer system;
inserting a copy of the global notification hook into the third process; and
broadcasting a private startup message to the copy of the global
notification hook in the third process;

wherein, in response to the private startup message, the copy of the global notification hook executes program code for:

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determining whether subsequent messages passed between the operating system and a thread of the third process should be monitored; and in the event that the subsequent messages should be monitored, activating a thread-level message hook within the thread of the third process; wherein determining whether subsequent messages passed between the operating system and the thread of the third process should be monitored includes:

identifying a previously created window of the third process; and determining whether the previously created window is of interest, wherein subsequent messages should be monitored in the event that the previously created window is of interest."

- 4. The following is an examiner's statement of reasons for allowance:
- a) The art of record used as the basis for the previous rejection, <u>De Armas et al</u> (US Pat: 6,611,878) and <u>Teilhet</u> (Teilhet, Stephen. <u>Subclassing and Hooking with Visual Basic.</u> O'Reily Publishing, June 2001), do not expressly teach or render obvious the invention as recited in independent **Claims 1, 18, 27, and 32**.
- b) As to Claim 1, the art of record does not expressly teach wherein determining whether subsequent messages passed between the operating system and the thread of the third process should be monitored includes identifying a previously created window of the third process and determining whether the previously created window is of interest, wherein subsequent messages should be monitored in the event that the previously created window is of interest, when taken in the context of the claim, as a

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whole. Also, there is no basis in evidence for asserting a motivation that one of ordinary skill in the art at the time of invention was made would have modified the method as described to combine the limitations as recited in the context of **Claim 1**.

- c) As to Claims 18, 27 and 32, these claims are allowable for the same reasoning as applied to Claim 1.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Pantoliano Jr whose telephone number is (571) 270-1049. The examiner can normally be reached on Monday-Thursday, 8am 4 pm EST.
- 7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Thomson can be reached on (571)272-3718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RP 08/31/2007

> WILLIAM THOMSON WILLIAM THOMSON WILLIAM THOMSON WILLIAM THOMSON PATENT EXAMINER